

Figure 1a (Prior Art)

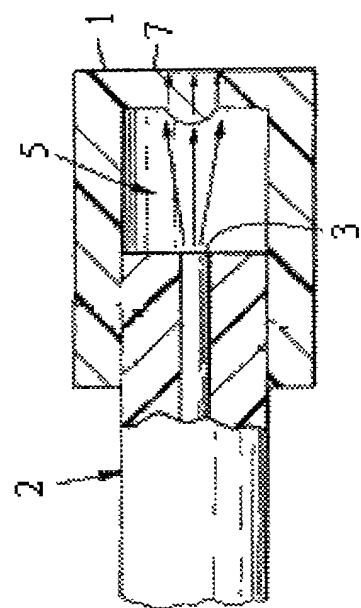
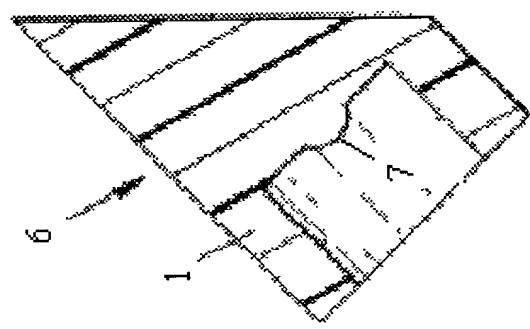


Figure 1b (Prior Art)



alpha beta gamma delta epsilon mu nu rho sigma iota rho' mu' nu' rho'' sigma' iota' rho''' mu''' nu''' rho''''

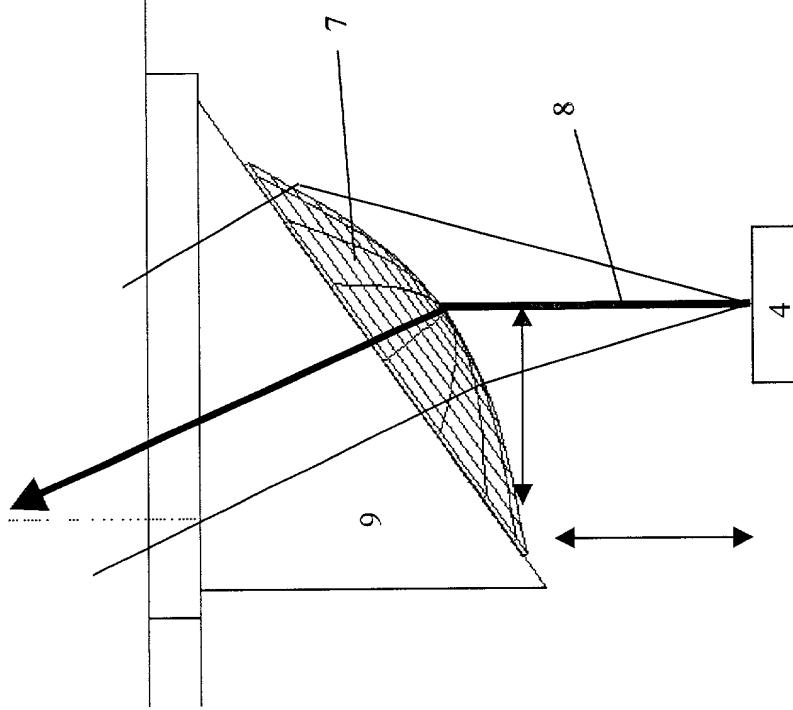
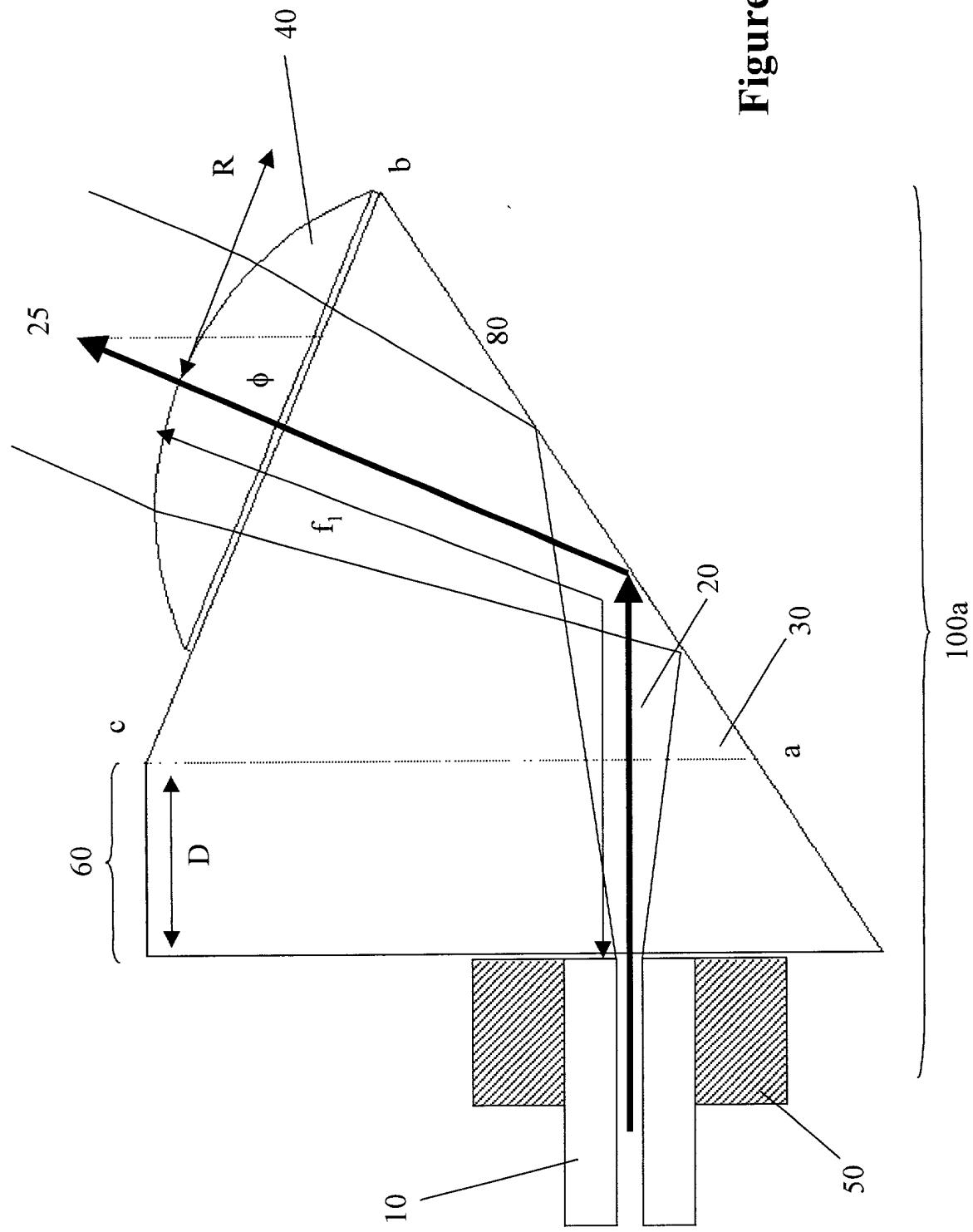


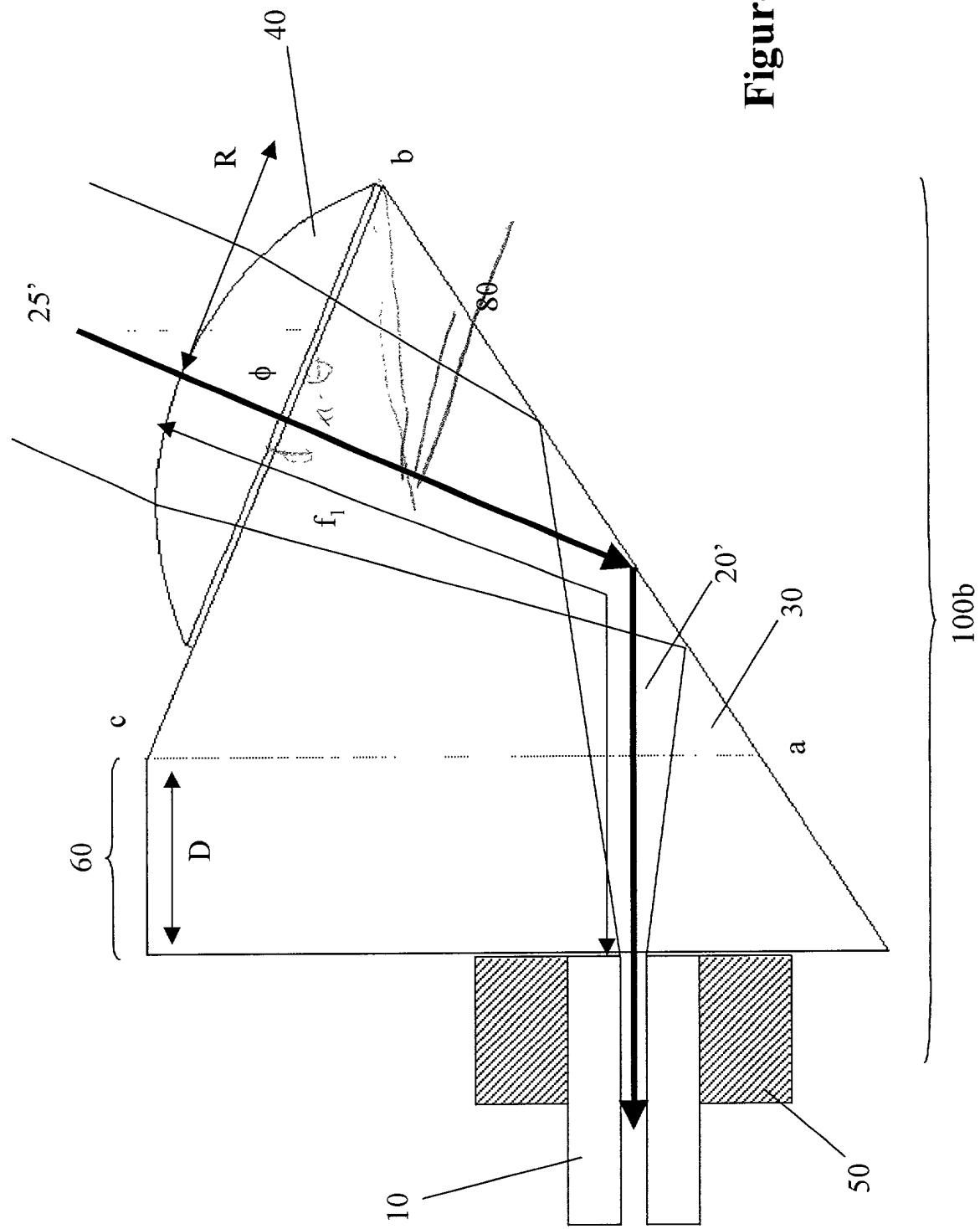
Figure 2  
(Prior Art)

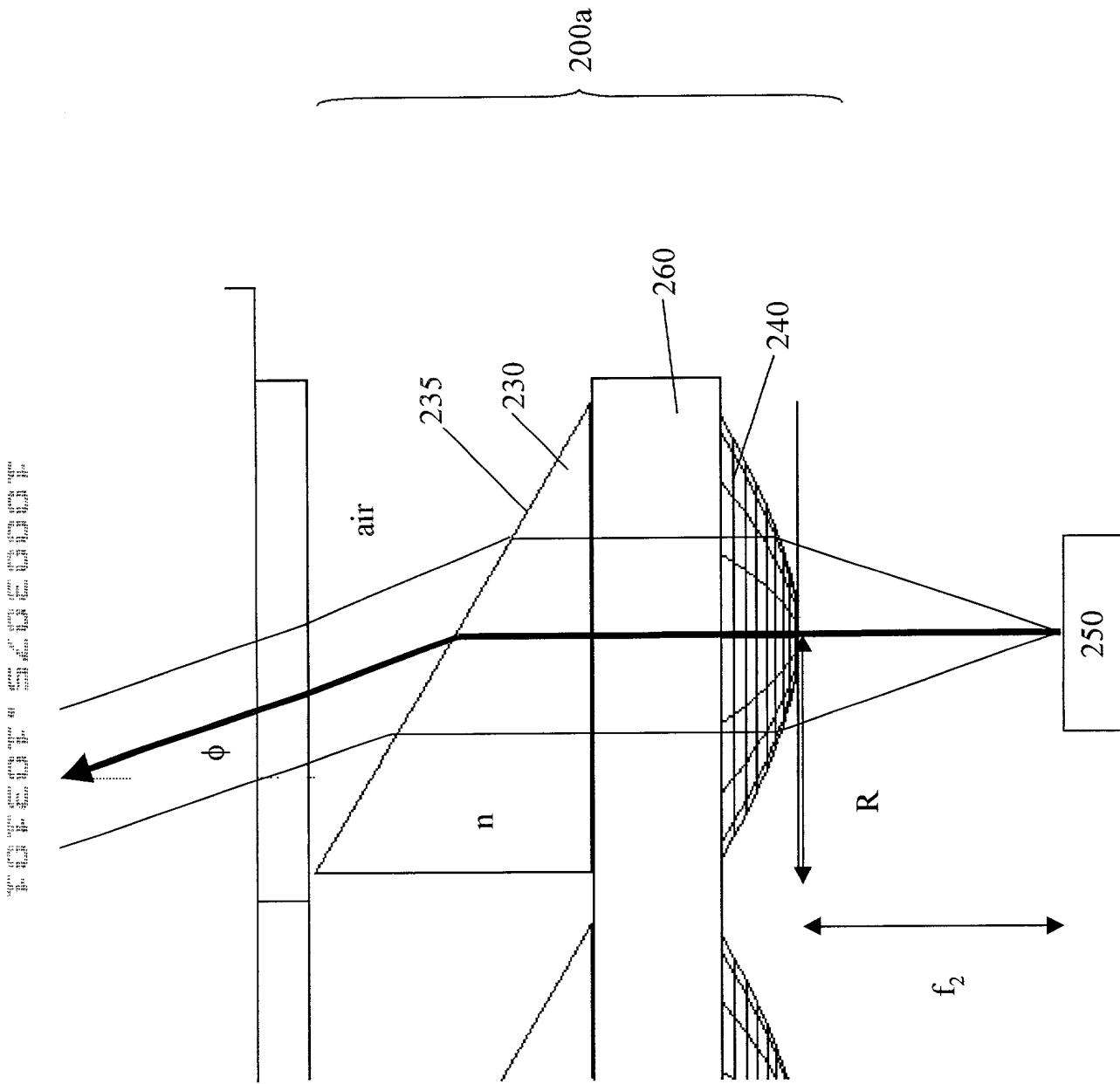
**Figure 3a**



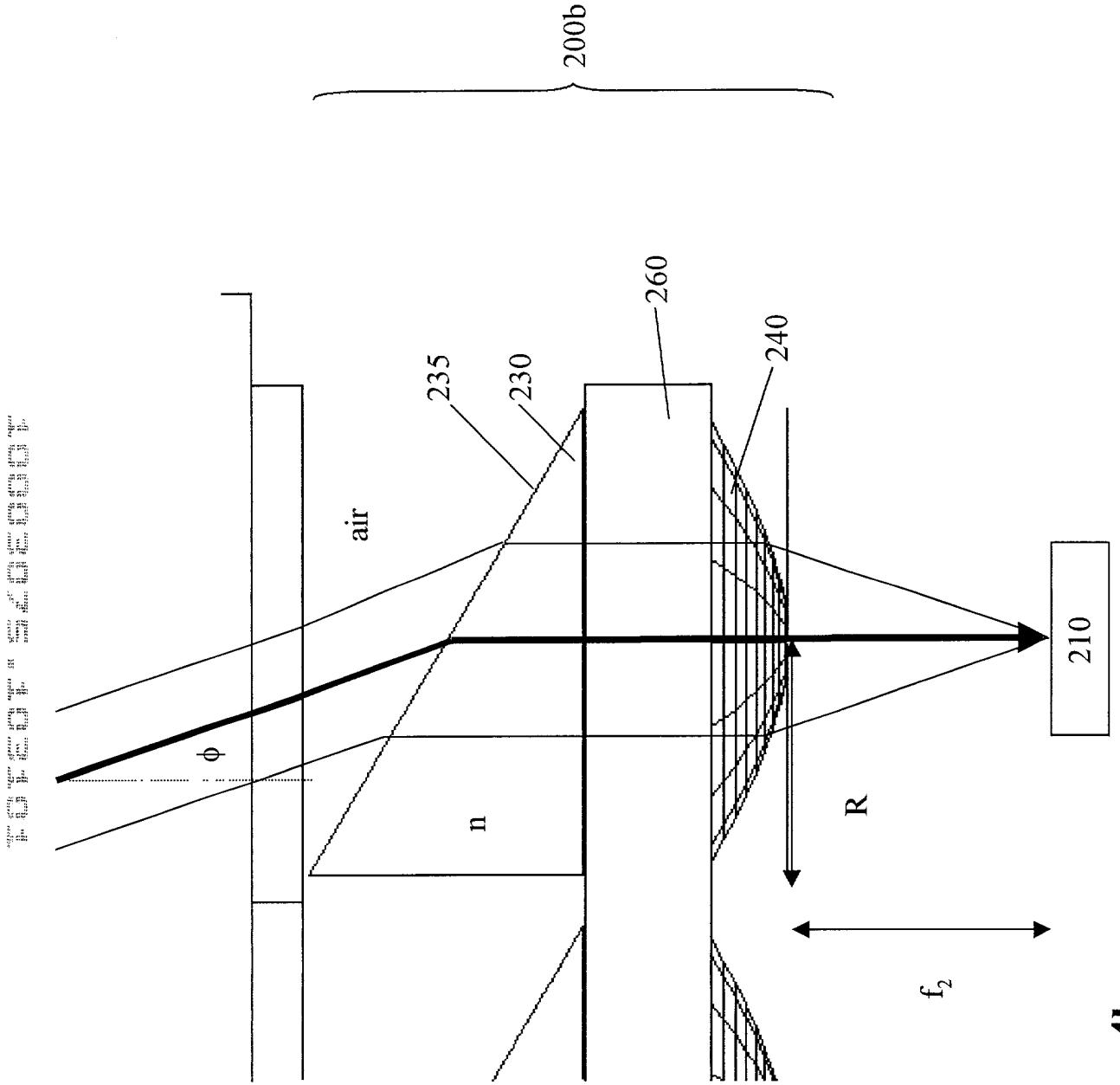
**Figure 3b**

Diagram illustrating the geometric parameters of a lens system. The diagram shows a lens with focal length  $f_1$  and a distance  $D$  between the lens and a shaded rectangular object. The angle  $\phi$  is shown between the optical axis and a ray from the lens center to the top edge of the object. The angle  $\alpha$  is shown between the optical axis and a ray from the lens center to the bottom edge of the object. The angle  $\beta$  is shown between the optical axis and a ray from the lens center to the right edge of the object. The angle  $\gamma$  is shown between the optical axis and a ray from the lens center to the left edge of the object. The angle  $\theta$  is shown between the optical axis and a ray from the lens center to the top-right corner of the object. The angle  $\delta\theta$  is shown between the optical axis and a ray from the lens center to the top-left corner of the object. The angle  $\epsilon$  is shown between the optical axis and a ray from the lens center to the bottom-right corner of the object. The angle  $\zeta$  is shown between the optical axis and a ray from the lens center to the bottom-left corner of the object. The angle  $\eta$  is shown between the optical axis and a ray from the lens center to the right edge of the object. The angle  $\kappa$  is shown between the optical axis and a ray from the lens center to the left edge of the object. The angle  $\lambda$  is shown between the optical axis and a ray from the lens center to the top edge of the object. The angle  $\mu$  is shown between the optical axis and a ray from the lens center to the bottom edge of the object. The angle  $\nu$  is shown between the optical axis and a ray from the lens center to the right edge of the object. The angle  $\omega$  is shown between the optical axis and a ray from the lens center to the left edge of the object. The angle  $\rho$  is shown between the optical axis and a ray from the lens center to the top-right corner of the object. The angle  $\sigma$  is shown between the optical axis and a ray from the lens center to the top-left corner of the object. The angle  $\tau$  is shown between the optical axis and a ray from the lens center to the bottom-right corner of the object. The angle  $\psi$  is shown between the optical axis and a ray from the lens center to the bottom-left corner of the object.

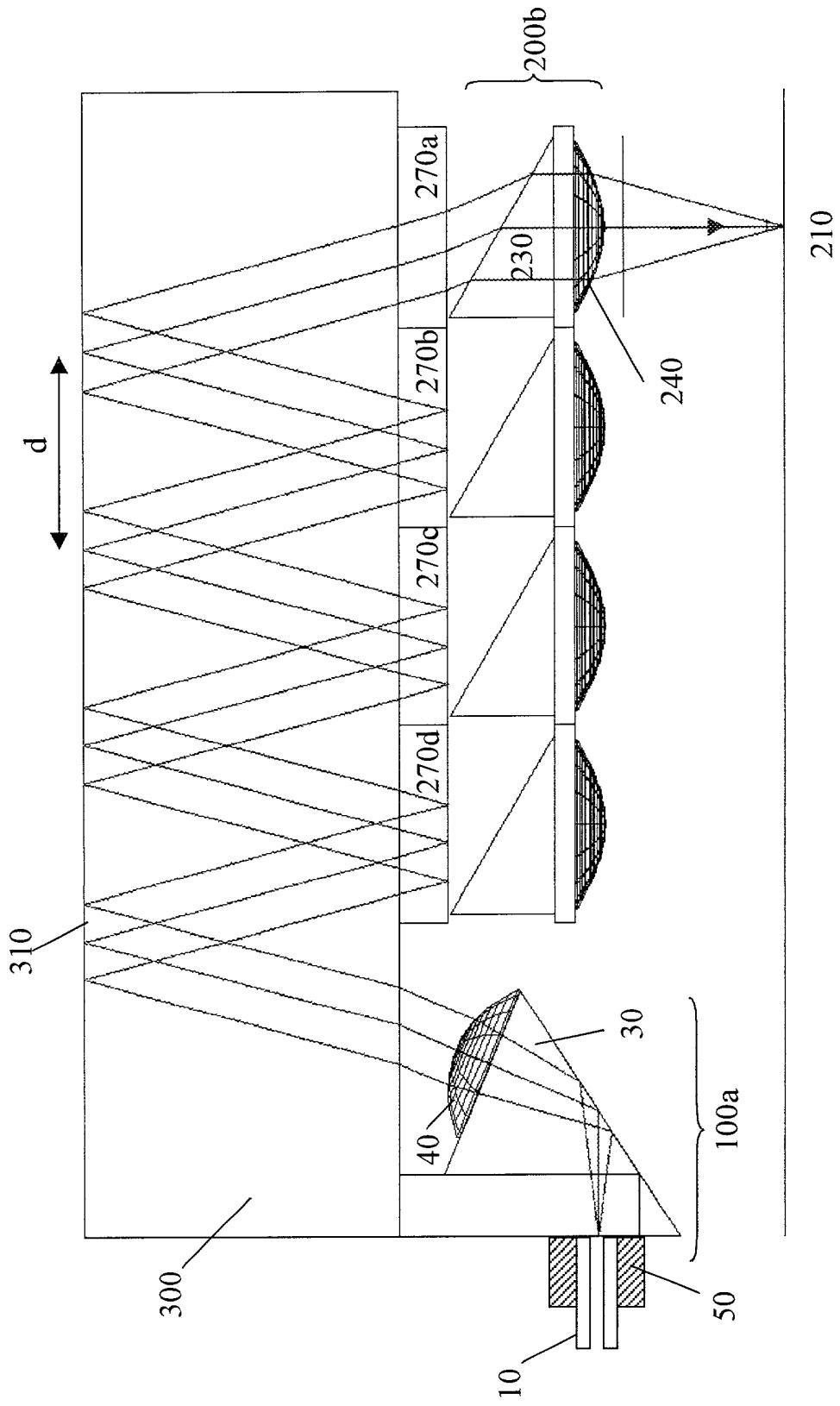
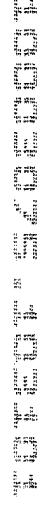




**Figure 4a**

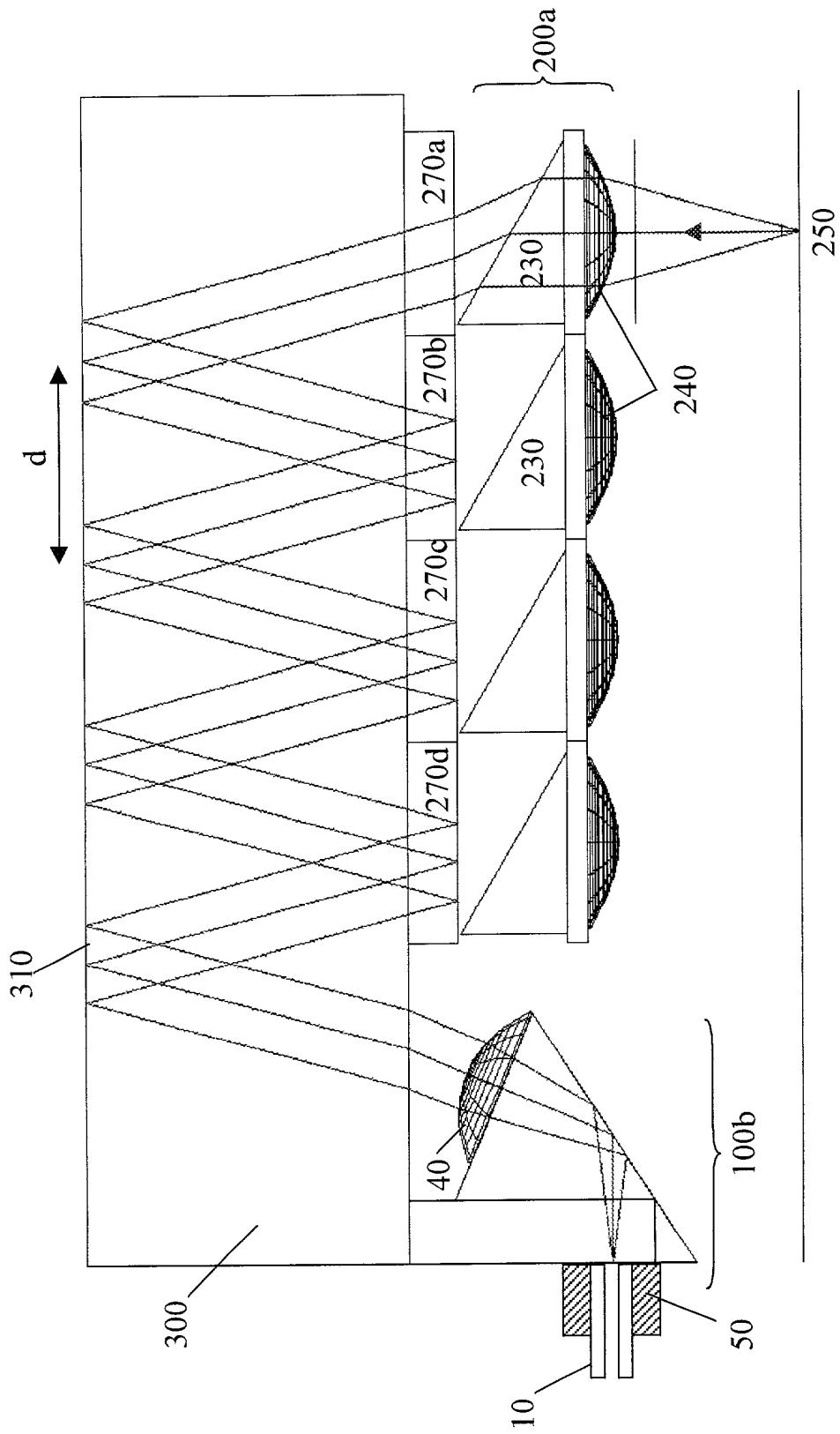


**Figure 4b**



**Figure 5a**

310  
300  
10  
50  
100b  
200a  
230  
240  
250  
270d  
270c  
270b  
270a



**Figure 5b**

source 3dB  $f_1/f_2$   
misaligned  $\sim 3$  dB loss

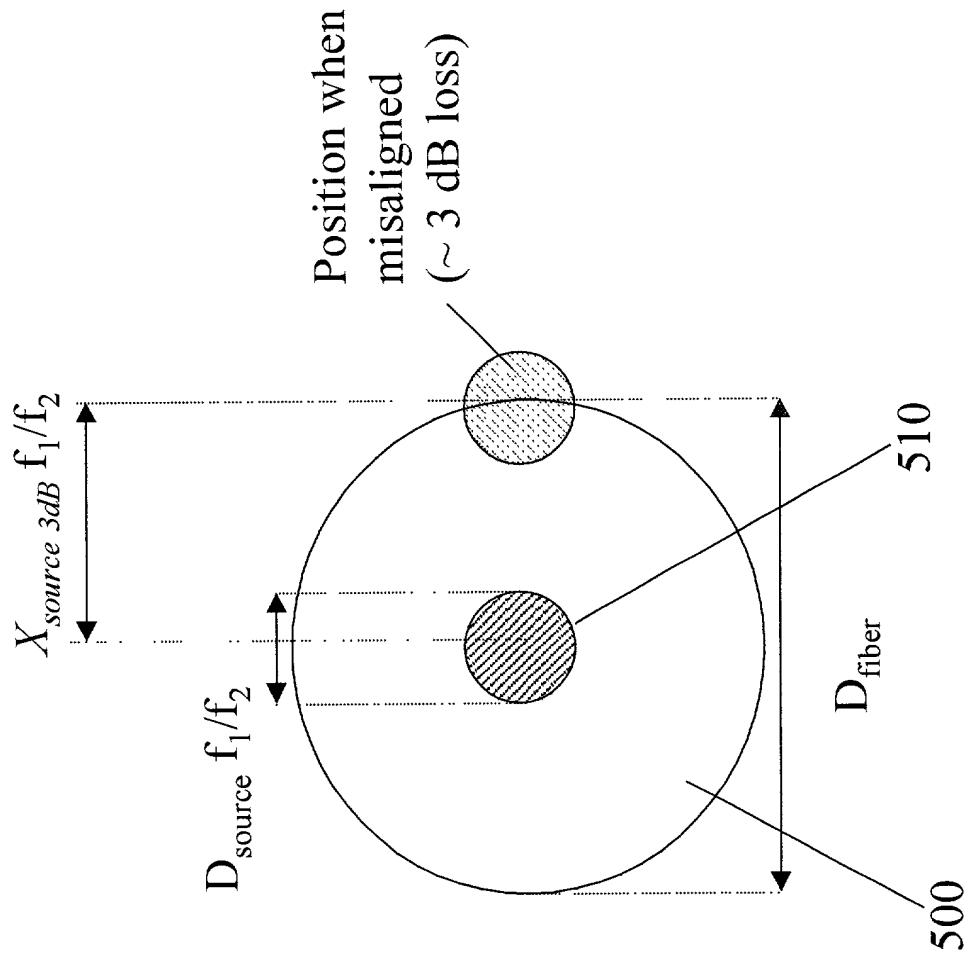
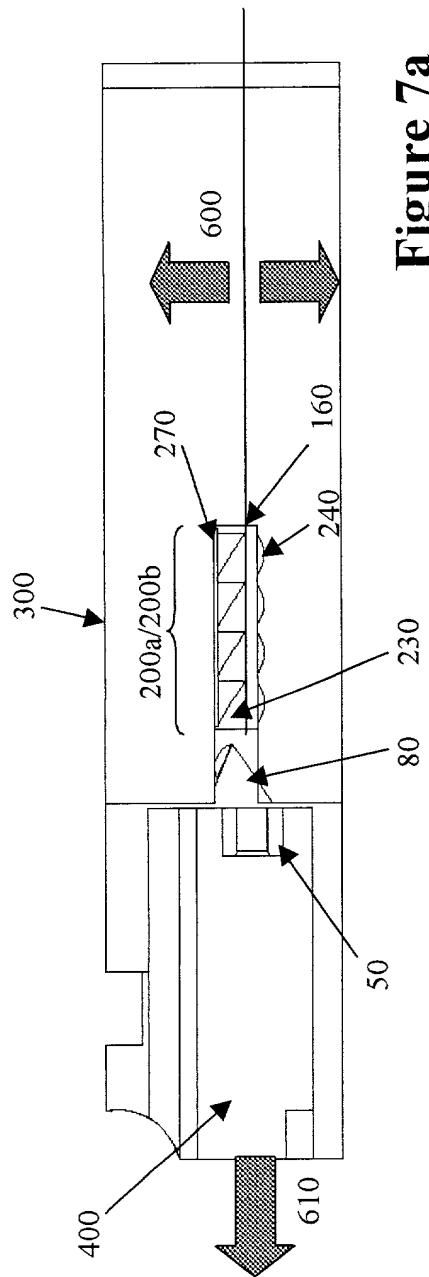
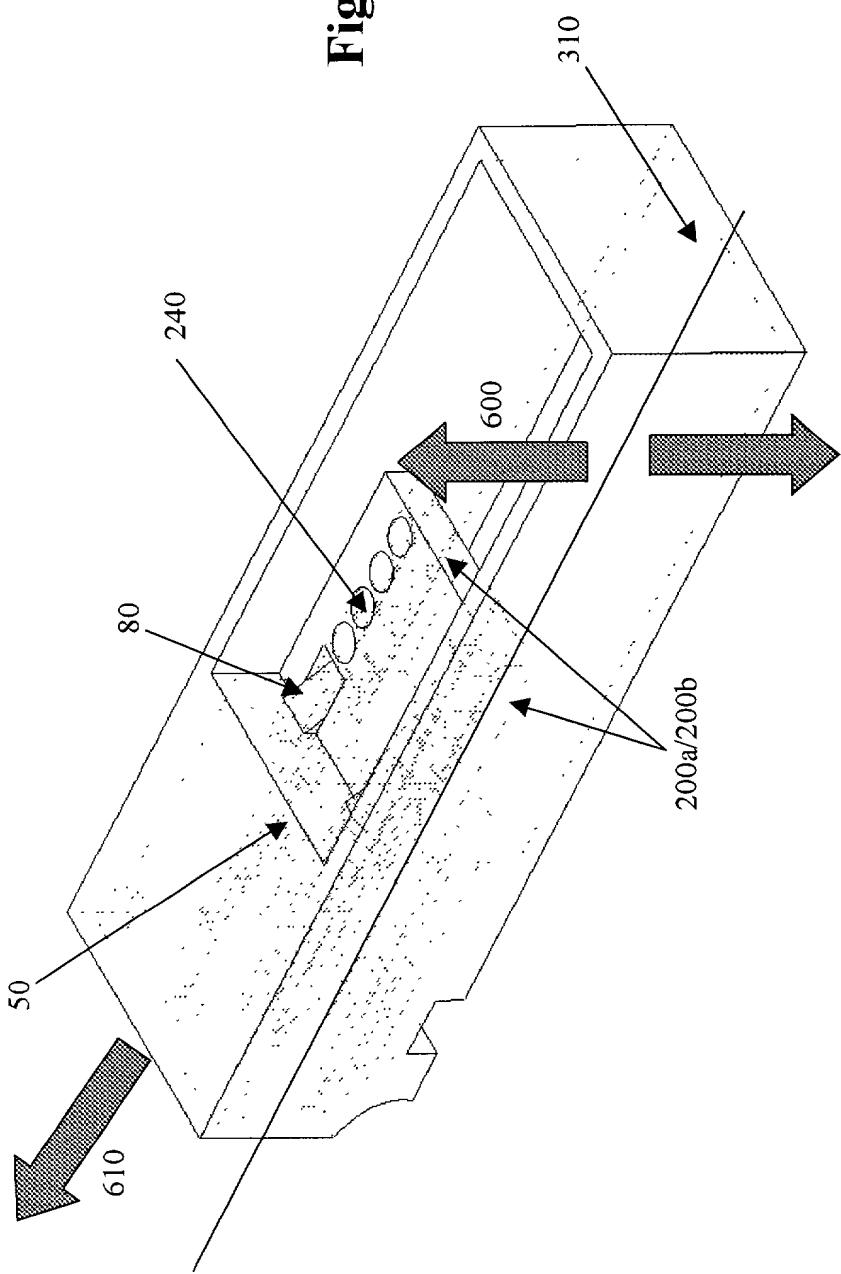


Figure 6



**Figure 7a**



**Figure 7b**

**Figure 8**

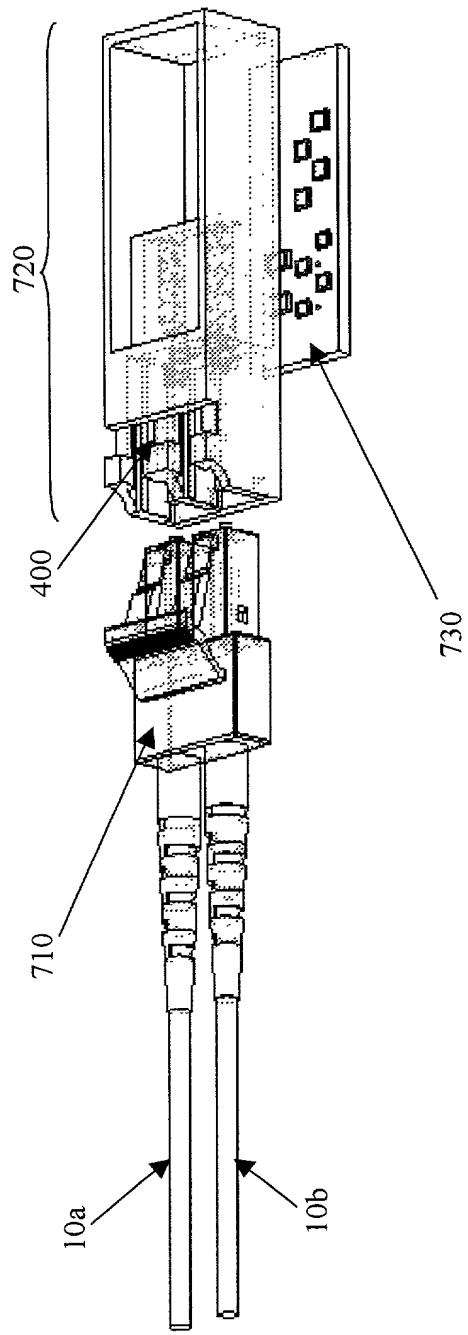


Figure 9

